

US EPA RECORDS CENTER REGION 5



466394

Monthly Oversight Report 46
ACS NPL Site
Griffith, Indiana
September 25, 2004 - October 29, 2004



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526
BVSPC File C.3
November 15, 2004

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report
No. 46 for October 2004

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 46 for October 2004 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbelllm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 46
ACS Superfund Site WA57, 46526.238

Reporting Period: Month of October (September 25, 2004 - October 29, 2004).

BVSPC O/S Dates: September 28 and October 7, 14, 20, 25, and 27, 2004.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
U.S. Environmental Protection Agency	1	Federal Regulatory Agency
Indiana Department of Environmental Management	2	State Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
PSA Environmental	2	Chemical Oxidation Geoprobe Contractor
ISOTEC	4	Chemical Oxidation Injection Contractor
Walsh & Kelly	4	SBPA Asphalt Paving Contractor
Austgen	2	General Contractor
Ryan Construction	2	Mechanical Contractor
Microbac (formerly Simalabs)	1	GWTP Sampling Contractor
Post Tribune	2	Newspaper Reporter and Photographer
General Public	8	Interested Persons

Construction Activities

Major Activities:

- Montgomery Watson Harza continued to operate the groundwater treatment plant and the in-situ soil vapor extraction systems.
- ISOTEC and PSA Environmental completed the first phase of the chemical oxidation injections of modified Fenton's reagent in the South Area smear zone plume and demobilized.

- Walsh & Kelly filled joints between the final asphalt cover and concrete pads, constructed asphalt curbs to direct stormwater to drains, and painted stripping to delineate the roadway across the Still Bottoms Pond Area final cover.
- Ryan and Austgen made piping modifications and electrical/control connections between the new auxiliary and the existing Off-Site Containment Area blower systems.
- Montgomery Watson Harza completed the third-quarter semiannual groundwater monitoring well sampling and the annual residential well sampling.
- Montgomery Watson Harza and PSA Environmental conducted past-application sampling in the chemox treatment area.
- Microbac (formerly Simalabs) collected samples from the groundwater treatment plant for routine process monitoring.
- Montgomery Watson Harza held construction coordination meetings at the site on October 7 and 28, 2004.
- U.S. Environmental Protection Agency and Montgomery Watson Harza conducted a public meeting on October 20 at the site to celebrate the completion of construction of the elements of the remedial action.

Activities Performed:

Montgomery Watson Harza (MWH) continued to operate the groundwater treatment plant (GWTP) during the reporting period at 25 to 27 gpm. The GWTP was shut down for isolated periods for routine maintenance and to replace the granular activated carbon on September 27. The GWTP operated in recirculation mode until it was brought back online on September 29. Because of problems with the pump controllers, groundwater was not being pumped and treated from extraction wells MW10C and MW56 during the early part of the reporting period. Pump controllers were removed for inspection and repair/replacement. The controller for the pump from MW56 was repaired, and pumping from MW56 was resumed on October 15. Microbac (formerly Simalabs) collected samples from the GWTP for routine process monitoring.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer 2 (thermox 2). The OFCA ISVE system operated with the same 14 SVE wells that have been used for the last few months. The ONCA SBPA ISVE system operated with 12 SVE wells, but MWH is operating with a different group of 12 wells that may produce more vapors than the previous group. The OFCA ISVE system was offline for substantial periods during the reporting period while Ryan and Austgen, respectively, made piping and electrical/control connections for the new OFCA ISVE system auxiliary blower. Austgen is awaiting arrival of explosion proof relays for the OFCA auxiliary blower, which is approximately 99% complete. MWH plans to conduct startup testing of the auxiliary blower system as soon as the relays are installed.

Thermox 2 was shut down on October 4 when MWH installed new packing material to replace the previously damaged packing that was removed after the acid washing on September 14. Thermox 2 was returned to operation on October 5 and ran well during the remainder of the reporting period.

Austgen continued checkout of the new heat exchanger for thermox 1, including modifications to the software code. Final vapor piping and control wiring for thermox 1 were completed, and MWH began startup procedures on October 5, gradually raising the temperature to 1500°F. MWH introduced clean air on October 8 and OFCA ISVE vapors on October 13. Intermittently, thermox 1 failed to operate because of flame failures. MWH reported that it will document the changes to thermox 1 in the next *Quarterly Report of Active Treatment Systems* and will update the *O&M Manual* for thermox 1.

Ryan and Austgen were onsite October 14 to modify the ISVE influent piping in the GWTP such that vapors from the ONCA SBPA ISVE system could be directed to thermox 1, thereby freeing up capacity in thermox 2 to process the additional OFCA ISVE system vapor flow to be generated by the new OFCA auxiliary blower.

Walsh & Kelly (W&K) was onsite on October 6 to fill the joints between the SBPA final asphalt cover and the concrete well pads and building foundations. W&K was also onsite on October 8 to place asphalt to dress up the edges of the final cover and to install asphalt curbs along the perimeter of the cover to control and direct surface water flow to storm drains. MWH reported that this work was completed under rainy conditions, and at some locations, the back of the asphalt curb crumbled and lost shape. W&K was onsite on October 21 to paint stripes to delineate the roadway area (for heavy trucks) across the SBPA final cover. MWH reported that it is evaluating methods to delineate the roadway area that will be visible when the ground is snow covered.

ISOTEC and PSA Environmental completed the chemical oxidation injections in the South Area smear zone plume near the intersection of Reder Road and Colfax Avenue. ISOTEC had set up equipment in the OFCA and completed the injections on September 25. A total of 17 injection points were completed during this period, bringing the total to 388, eight more than originally scheduled. ISOTEC continued using three pumps and mixing tanks to inject the modified Fenton's reagent. ISOTEC and PSA demobilized from the site on September 25. ISOTEC's hydrogen peroxide tank trailer was demobilized on October 7. MWH reported that it will restore damaged surface areas in the chemox treatment area, including the Colfax Avenue right of way. MWH repaired damage to the grass at 1002 Reder Road.

MWH completed the third-quarter semiannual groundwater monitoring well sampling on September 25. MWH conducted the annual residential well sampling from September 25 through September 28. The well at residence PW-B was not sampled because the spigot had been taped shut. MWH attempts to contact the resident were not successful. MWH sampled another residence (PW-R) at the request of the resident.

MWH reported that it had received the analytical results from the soil gas samples collected during the previous reporting period near the house at 1002 Reder Road. These results indicated a possible leak in the natural gas piping leading to the house. MWH notified the local gas utility that confirmed the leak and replaced a valve. MWH reported that it had recommended to the PRP group that additional soil gas sampling be conducted in this area.

Observed MWH conducting groundwater sampling of existing piezometers and temporary wells in the chemox treatment area on October 25. PSA Environmental mobilized to the site on October 26. MWH reported that it and PSA collected groundwater samples at additional locations in the chemox injection area

on October 26. Observed MWH and PSA collect soil samples at additional locations on October 27. PSA demobilized from the site on October 27.

MWH and U.S. Environmental Protection Agency conducted a public meeting at the site on October 20 from 3 to 5 PM to celebrate completion of construction of the physical elements of the remedial action. Members of the general public and newspaper media met at the Griffith City Hall and were transported by bus to the GWTP at the ACS site. Kevin Adler (EPA) and Peter Vagt (MWH) presented a summary of the ACS site history and described the resulting contamination at the site and the remedial actions constructed and implemented to cleanup such contamination. The public was given a descriptive tour of the GWTP and the wetlands pond and was then transported via bus to the OFCA to view the OFCA ISVE blower shed. At the conclusion of the meeting, the public was transported back to City Hall.

MWH held two construction coordination meetings on October 7 and 28, 2004. The former was held at the site, but the latter was held via telephone.

Attached are Black & Veatch Special Projects Corp. (BVSPC) weekly reports No. 187 through 191, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on portions of 6 days (September 28 and October 7, 14, 20, 25, and 27, 2004) and attended the public meeting on October 20, 2004. BVSPC's crew attended two construction coordination meetings on October 7 and 28, 2004, both via telephone.

Topics of Concern: None

Concern Resolution: None

Upcoming Activities:

- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).
- MWH to contact local resident regarding "whining" noise from the treatment system.

Signature: Larry Campbell

Date: November 12, 2004

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Weekly Oversight Summary Report No. 187
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of September 27, 2004.

BVSPC O/S Dates: September 28, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
PSA Environmental	2	Chemical Oxidation Geoprobe Contractor
ISOTEC	4	Chemical Oxidation Injection Contractor
Ryan Construction	2	Mechanical Contractor
Austgen	3	General Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Montgomery Watson Harza replaced the granular activated carbon in the groundwater treatment plant.
- ISOTEC and PSA Environmental completed chemical oxidation injections of modified Fenton's reagent in the South Area smear zone plume area and demobilized.
- Montgomery Watson Harza completed the third-quarter semiannual groundwater monitoring well sampling and conducted the annual residential well sampling.
- Montgomery Watson Harza completed third quarter monitoring well and annual residential well sampling.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 25-27 gpm. The GWTP was shut down periodically for routine maintenance and to replace the granular activated carbon (GAC) on September 27. The GWTP operated in recirculation mode until it was brought back online on September 29. Because of problems with the pump controllers, groundwater is not currently being pumped and treated from extraction wells MW10C and MW56. The pump controllers have been removed for inspection and repair/replacement.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors

through thermal oxidizer 2 (thermox 2). Ryan and Austgen continued installation and checkout of the new heat exchanger for thermox 1. Final vapor piping and control wiring should be completed next week and operations will begin to restart thermox 1.

The OFCA ISVE system continues to operate with 14 wells. Austgen continued electrical and control wiring of the OFCA auxiliary blower, which is approximately 95% complete. The ONCA SBPA ISVE system continues to operate with a different group of 12 wells that may produce more vapors than the previous group.

MWH plans to make additional changes to the SBPA final cover, including placing asphalt to dress up the edges of the cover, installing asphalt curbs to control and direct surface water flow to storm drains, complete the fencing around the ISVE wells, and paint stripes to delineate the roadway area (for heavy trucks) across the SBPA final cover.

ISOTEC and PSA Environmental completed the chemical oxidation injections in the South Area smear zone plume near the intersection of Reder Road and Colfax Avenue. ISOTEC had set up equipment in the OFCA and completed the injections on September 25. A total of 17 injection points were completed during this period, bringing the total to 388, eight more than originally scheduled. ISOTEC continued using three pumps and mixing tanks to inject the modified Fenton's reagent. ISOTEC and PSA demobilized from the site on September 25. MWH repaired damage to the grass at 1002 Reder Road.

MWH completed the third-quarter semiannual groundwater monitoring well sampling on September 25. MWH conducted the annual residential well sampling from September 25 through September 28. The well at residence PW-B was not sampled because the spigot had been taped shut. MWH attempts to contact the resident were not successful. MWH sampled another residence (PW-R) at the request of the resident.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to complete installation of the new heat exchanger and start thermox 1.
- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete remaining elements (curbs, fence, stripping) of the SBPA final cover.
- MWH to evaluate soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to conduct past-application sampling of soil and groundwater in the offsite chemox treatment area.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).
- MWH to contact local resident regarding "whining" noise from the treatment system.

- EPA and MWH to conduct public meeting regarding construction completion on October 20.

Signature: Larry Campbell

Date: October 6, 2004

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Weekly Oversight Summary Report No. 188
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of October 4, 2004.

BVSPC O/S Dates: October 7, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Walsh & Kelly	6	Asphalt Paving Contractor
Austgen	4	General Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Montgomery Watson Harza began startup of thermal oxidizer 1.
- Walsh & Kelly filled joints between asphalt and concrete pads and constructed asphalt curbs to direct stormwater runoff to the drains.
- Montgomery Watson Harza identified a possible natural gas leak at the residence at 1002 Reder Road based on soil gas sampling results. Gas utility repaired leak.
- Montgomery Watson Harza conducted the construction coordination meeting at the site on October 7.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 27 gpm. The GWTP was shut down periodically for routine maintenance. Because of problems with the pump controllers, groundwater is not currently being pumped and treated from extraction wells MW10C and MW56. The pump controllers have been removed for inspection and repair/replacement.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCa) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer 2 (thermox 2). New packing material was installed in thermox 2 on October 4 to replace the previously damaged packing that was removed after the acid washing on September 14. Thermox 2 was returned to operation on October 5 and has been running well.

Austgen continued checkout of the new heat exchanger for thermox 1, including modifications to the software code. Final vapor piping and control wiring for thermox 1 are complete, and MWH began startup procedures on October 5, gradually raising the temperature to 1500°F. MWH introduced clean air to thermox 1 on October 8. The following week, MWH plans to introduce ISVE vapors to thermox 1. MWH reported that it will document the changes to thermox 1 in the next *Quarterly Report of Active Treatment Systems* and will update the *O&M Manual* for thermox 1.

The OFCA ISVE system continues to operate with 14 wells. Austgen continued electrical and control wiring of the OFCA auxiliary blower, which is approximately 99% complete. Expected completion date is October 11. MWH will then conduct startup testing of the auxiliary blower system. The ONCA SBPA ISVE system continues to operate with a different group of 12 wells that may produce more vapors than the previous group.

Walsh & Kelly (W&K) was onsite on October 6 to fill the joints between the SBPA final asphalt cover and the concrete well pads and building foundations. W&K was also onsite on October 8 to place asphalt to dress up the edges of the final cover and to install asphalt curbs along the perimeter of the cover to control and direct surface water flow to storm drains. MWH reported that this work was completed under rainy conditions, and at some locations, the back of the asphalt curb crumbled and lost shape. MWH plans to complete the fencing around the ISVE wells and to paint stripes to delineate the roadway area (for heavy trucks) across the SBPA final cover. MWH reported that it is evaluating methods to delineate the roadway area that will be visible when the ground is snow covered.

ISOTEC's hydrogen peroxide tank trailer was demobilized on October 7. MWH reported that it will restore damaged surface areas in the chemox treatment area, including the Colfax Avenue right of way.

MWH reported that it had received the analytical results from the soil gas samples collected near the house at 1002 Reder Road. These results indicated a possible leak in the natural gas piping leading to the house. MWH notified the local gas utility that confirmed the leak and replaced a valve. MWH reported that it had recommended to the PRP group that additional soil gas sampling be conducted in this area.

MWH conducted the construction coordination meeting at the site on October 7.

Black & Veatch Special Projects Corp. went to the site to attend MWH's construction coordination meeting on October 7, 2004, but had to complete the meeting via telephone because of a family medical emergency.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to complete startup of thermox 1.
- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.

- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing and stripping of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to conduct past-application sampling of soil and groundwater in the offsite chemox treatment area.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).
- MWH to contact local resident regarding “whining” noise from the treatment system.
- EPA and MWH to conduct public meeting regarding construction completion on October 20.

Signature: Larry Campbell

Date: October 13, 2004

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**WEEKLY CONSTRUCTION MEETING MINUTES
FOR OCTOBER 7, 2004 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, October 7, 2004

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS

ATTENDEES: Kevin Adler – U.S. EPA
Larry Campbell – BVSPC (via phone)
Peter Vagt - MWH
Rob Adams – MWH
Mark Travers – Environ
Lee Orosz - MWH
Rich McCarroll – MWH
Chad Smith – MWH
Amy Clore – MWH

TOPICS:

Health and Safety Summary

There have been no health and safety issues since the last meeting on September 23rd.

Ryan Construction, Augsten Electric, Walsh and Kelly, PSA and Isotech were all on site in the past two weeks. Workers involved with the granular activated carbon (GAC) change out in the groundwater treatment plant (GWTP) wore the appropriate personal protective equipment (PPE) including a harness, eye-protection and hard hats.

Groundwater Treatment Plant (GWTP) Status

The GWTP is presently operating at 27 gallons per minute (gpm). The GWTP was shut down September 27th while the GAC was exchanged. The system was operated in recirculation mode until September 28th to remove fines from the new GAC. The system was then brought back on line began discharging on September 29th. No issues have arisen regarding the GWTP.

As initially discussed during September 23rd construction meeting the sulfuric acid stored in temporary storage tanks in the GWTP was shipped off-site September 20th. The temporary storage tanks were then cleaned and returned to the rental company on September 20th.

Off-Site Area/SBPA ISVE Systems

While Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) underwent acid washing of the scrubber packing on September 14th it was noticed that portions of the packing material were damaged. Replacement packing was ordered and Therm Ox 2 was temporarily shut down on October 4th while the new packing was installed and other maintenance was performed. The unit was brought back online October 5th and is currently running normally.

The mechanical work on the new heat exchanger for Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1) is complete. The system was started up on October 5th and given two days time for the temperature to rise to the operating temperature. The system is presently at the operating temperature of 1500 degrees Fahrenheit. MWH will test the unit today (October 7th) with fresh air. Testing with actual vapors is scheduled for October 8th after the replacement of a faulty conductivity probe. MWH will document the changes made to the Therm Ox units in its quarterly report and will also look into revising the O & M manual for the Therm Ox units for future reference.

The Off-Site ISVE system is currently running and Augsten is finalizing the electrical and control wiring for the ISVE expansion equipment. The electrical wiring is anticipated to be complete by October 11th. MWH will conduct start-up testing of the blower system upgrades once the wiring is complete.

The Still Bottoms Pond Area (SBPA) ISVE system is currently running normally.

SBPA Final Cover

Walsh and Kelly was on site October 6th filling in the joints on the SBPA Final Cover. Walsh and Kelly will also be on site October 8th to conduct additional work on the Cover. The work will include the installing 6-inch high storm water diversion curbs, installing asphalt around some perimeter catch basins, and delineating heavy traffic areas with solid yellow lines. MWH is evaluating methods that will enable the designated heavy traffic areas to be visible in the winter months when snow may be on the ground.

Chemical Oxidation Application

The first full scale Chem Ox application was completed on September 25th. A total of 388 injection points were completed. The subcontractors demobilized from the site on September 25th and the hydrogen peroxide tank was removed from the site October 7th. MWH will perform restoration work on the lawn of the residence at 1002 Reder Road, as well as the right of way along Colfax Avenue.

MWH received initial results of the soil gas samples taken near the resident at the intersection of Colfax and Reder Rd. MWH is evaluating the results and will include its findings in a future letter to the Agencies.

Post Chem Ox soil and groundwater sampling is scheduled for the last week of October. MWH will be sending out a letter showing the proposed locations to the Agencies during the week of October 11th.

Groundwater and Residential Well Sampling

The 24th round of Groundwater sampling was completed on September 28th along with the Residential well sampling. MWH did not sample the groundwater at the residence of PW-B because the water spigot was taped shut and MWH was not able to get into contact with the resident. Attempts by MWH of contacting the residence have been unsuccessful. PW-B will not be included in this round of residential sampling. The U.S. EPA will send the resident a letter once the results from the other residential wells are received and validated. At request of the resident located at PW-R and with approval of the U.S. EPA MWH sampled their residential well as part of the sampling round. (This well had previously been sampled as part of an earlier investigation but is not one of the regularly sampled residential wells).

Lower Aquifer Investigation

Investigation of the lower aquifer is scheduled to begin on November 1st. The investigation is estimated to last two weeks. MWH will issue a final version of the work plan to the Agencies before work begins.

Construction Completion

The public meeting is scheduled for October 20th between 3 and 5 p.m. The community is being notified of the meeting by the U.S EPA through newspaper ads and contact through area schools. MWH is making arrangements for a shuttle bus to provide transportation for community members to transport them from the townhall to the ACS Site.

Look Ahead Schedule

October 8, 2004 through October 21, 2004	<ul style="list-style-type: none"> • Complete Off-Site ISVE system upgrades (during week of October 11) • Begin test-out of the Off-Site ISVE system upgrades (during week of October 11) • GWTP/BWES/PGCS operation and routine maintenance (on-going) • Complete startup of the heat exchanger for Therm Ox 1 (during week of October 11) • Complete SBPA Cover finishing work (TBD) • Conduct Public Meeting (October 20) • Lower Aquifer Investigation (November 1)
Health and Safety Items to Monitor	<ul style="list-style-type: none"> • Safety issues associated with the Off-Site ISVE system expansion. The system will be shut down while personnel work on the electrical portions of the blower building. • Routine daily tailgate health and safety meetings for all work activities.

Next Construction Meeting – Thursday, October 21, 2004, 10 AM.

ALC/HAA/PJV

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Construction Meeting Minutes

October 7, 2004 Meeting

October 12, 2004

Page 3

ACS NPL Site

Weekly Oversight Summary Report No. 189
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of October 11, 2004.

BVSPC O/S Dates: October 14, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Ryan	1	General Contractor
Austgen	2	General Contractor
Microbac	1	GWTP Sampling Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Montgomery Watson Harza began processing vapors from the in-situ soil vapor extraction systems through thermal oxidizer 1.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 27 gpm. The GWTP was shut down periodically for routine maintenance. Because of problems with the pump controllers, groundwater is not currently being pumped and treated from extraction well MW10C; the pump controller has been removed for inspection and repair/replacement. The controller for the pump from MW56 was repaired, and pumping from MW56 was resumed on October 15.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer 2 (thermox 2). Last week, MWH began operation of thermox 1, gradually raising the temperature to 1500°F and introducing clean air to thermox 1. MWH reported that it began processing vapors from the OFCA ISVE system through thermox 1 on October 13. Intermittently, thermox 1 failed to operate because of flame failure. The unit was restarted and operated until the next flame failure.

Ryan and Austgen were onsite October 14 to modify the ISVE influent piping in the GWTP such that vapors from the ONCA SBPA ISVE system could be directed to thermox 1, thereby freeing up capacity

in thermox 2 to process the additional OFCA ISVE system vapor flow to be generated by the OFCA auxiliary blower.

The OFCA ISVE system continues to operate with 14 wells. Austgen continued electrical and control wiring of the OFCA auxiliary blower, which is approximately 99% complete. MWH plans to conduct startup testing of the auxiliary blower system next week. The ONCA SBPA ISVE system continues to operate with a different group of 12 wells that may produce more vapors than the previous group.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing and stripping of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to conduct past-application sampling of soil and groundwater in the offsite chemox treatment area.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).
- MWH to contact local resident regarding “whining” noise from the treatment system.
- EPA and MWH to conduct public meeting regarding construction completion on October 20.

Signature: Larry Campbell

Date: October 20, 2004

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Weekly Oversight Summary Report No. 190
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of October 18, 2004.

BVSPC O/S Dates: October 20, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	5	Respondent's General Contractor
U.S. Environmental Protection Agency	1	Federal Regulatory Agency
Indiana Department of Environmental Management	2	State Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Walsh & Kelly	2	Asphalt Contractor
Post Tribune	2	Newspaper Reporter and Photographer
General Public	8	Interested Persons

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Walsh & Kelly completed stripping of the roadway across the Still Bottoms Pond Area final cover.
- Montgomery Watson Harza and U.S. Environmental Protection Agency conducted a public meeting at the site on October 20 to celebrate completion of construction of the remedial action elements.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 27 gpm. The GWTP was shut down periodically for routine maintenance. Because of problems with the pump controller, groundwater is not currently being pumped and treated from extraction well MW10C; the pump controller has been removed for inspection and repair/replacement.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were processed through thermal oxidizer 1 (thermox 1) and those from the OFCA ISVE system, through thermox 2.

The OFCA ISVE system continues to operate with 14 wells. Austgen is awaiting arrival of explosion proof relays for the OFCA auxiliary blower, which is approximately 99% complete. MWH plans to conduct startup testing of the auxiliary blower system as soon as the relays are installed. The ONCA SBPA ISVE system continues to operate with a different group of 12 wells that may produce more vapors than the previous group.

MWH reported that Walsh & Kelly was onsite October 21 to paint yellow stripping on the SBPA final asphalt cover to delineate the truck route across the final cover.

MWH and U.S. Environmental Protection Agency conducted a public meeting at the site on October 20 from 3 to 5 PM to celebrate completion of construction of the physical elements of the remedial action. Members of the general public and newspaper media met at the Griffith City Hall and were transported by bus to the GWTP at the ACS site. Kevin Adler (EPA) and Peter Vagt (MWH) presented a summary of the ACS site history and described the resulting contamination at the site and the remedial actions constructed and implemented to cleanup such contamination. The public was given a descriptive tour of the GWTP and the wetlands pond and was then transported via bus to the OFCA to view the OFCA ISVE blower shed. At the conclusion of the meeting, the public were transported back to City Hall.

Black & Veatch Special Project Corp. attended the public meeting at the site on October 20.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to conduct past-application sampling of soil and groundwater in the offsite chemox treatment area.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).

- MWH to contact local resident regarding “whining” noise from the treatment system.

Signature: Larry Campbell

Date: October 27, 2004

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Weekly Oversight Summary Report No. 191
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of October 25, 2004.

BVSPC O/S Dates: October 25 and 27, 2004 (Mr. Campbell)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
Ryan Construction	1	General Contractor
PSA Environmental	2	Geoprobe Contractor

Construction Activities

Major Activities:

- Montgomery Watson Harza continued operating the groundwater treatment plant and the in-situ soil vapor extraction systems.
- Montgomery Watson Harza and PSA Environmental conducted past-application sampling in the chemox treatment area.
- Montgomery Watson Harza conducted construction coordination meeting via telephone on October 28.

Activities Performed:

Montgomery Watson Harza (MWH) reported that it continued to operate the groundwater treatment plant (GWTP) at 27 gpm. The GWTP was shut down periodically for routine maintenance. Because of problems with the pump controller, groundwater is not currently being pumped and treated from extraction well MW10C; the pump controller has been removed for inspection and repair/replacement.

MWH continued to operate the On-Site Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizers 1 and 2. Vapors from the ONCA SBPA ISVE system were preprocessed through thermal oxidizer 1 (thermox 1) and those from the OFCA ISVE system were processed through thermox 2.

The OFCA ISVE system continues to operate with 14 wells. Austgen is awaiting arrival of explosion proof relays for the OFCA auxiliary blower, which is approximately 99% complete. MWH plans to conduct startup testing of the auxiliary blower system as soon as the relays are installed. The ONCA SBPA ISVE

system continues to operate with a different group of 12 wells that may produce more vapors than the previous group.

Observed MWH conducting groundwater sampling of existing piezometers and temporary wells in the chemox treatment area on October 25. PSA Environmental mobilized to the site on October 26. MWH reported that it and PSA collected groundwater samples at additional locations in the chemox injection area on October 26. Observed MWH and PSA collect soil samples at additional locations on October 27. PSA demobilized from the site on October 27.

Montgomery Watson Harza conducted the construction coordination meeting via telephone on October 28.

Black & Veatch Special Project Corp. personnel attended the MWH construction coordination meeting via telephone on October 28.

Topics of Concern: None.

Concern Resolution: None.

Upcoming Activities:

- MWH to complete expansion and start the OFCA ISVE auxiliary blower system.
- MWH to continue proving out the ONCA SBPA ISVE system wells.
- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE systems.
- MWH to assess results of final laboratory testing of cores of the SBPA final asphalt cover.
- MWH to complete fencing of the SBPA final cover.
- MWH to collect additional soil gas samples to assess possible soil vapor intrusion into the house basement resulting from the smear zone in the South Area plume.
- MWH to investigate benzene levels in the lower aquifer in the wetlands area (to begin on November 1).
- MWH to contact local resident regarding “whining” noise from the treatment system.

Signature: Larry Campbell

Date: November 4, 2004

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**WEEKLY CONSTRUCTION MEETING MINUTES
FOR OCTOBER 28, 2004 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: Thursday, October 28, 2004

MEETING TIME: 10:00 AM

MEETING LOCATION: MWH Chicago Office

ATTENDEES: Kevin Adler – U.S. EPA (via telephone)
Larry Campbell – BVSPC (via telephone)
Rob Adams – MWH
Amy Clorc – MWH
Chris Daly – MWH
Matthew Mesarch – MWH
Jon Pohl – MWH
Chad Smith – MWH
Peter Vagt – MWH

NOTE: The next Construction Meeting is scheduled for 3 weeks out on Thursday November 18, 2004 at 10 a.m. There will be NO meeting November 11th.

TOPICS

Health and Safety Summary

There have been no health and safety issues since the last meeting on October 7th.

Augsten Electric, Walsh and Kelly, and PSA were on site in the past three weeks and had no health and safety incidents.

Groundwater Treatment Plant (GWTP) Status

The GWTP is presently operating at 27 gallons per minute (gpm). No issues have arisen regarding the GWTP since the last construction meeting on October 7th.

The pump in extraction well MW 56 was brought back online on October 15th. Extraction well MW 10C still remains offline.

Off-Site Area/SBPA ISVE Systems

Thermal Oxidizer/Scrubber Unit 2 (Therm Ox 2) is currently running normally and has had no issues during the past three weeks.

Thermal Oxidizer/Scrubber Unit 1 (Therm Ox 1) went down October 13th due to a flame failure in the ignition part of the burner. The problem was fixed and the unit was brought back online the same day.

The Off-Site ISVE system is currently running and Augsten is waiting for the delivery of parts to finalize the electrical and control wiring for the ISVE expansion equipment. Explosion-proof relays for the system are scheduled to be delivered the week of November 1st. The electrical wiring is anticipated to be complete during that same week. MWH will conduct start-up testing of the blower system upgrades once the wiring is complete.

The Still Bottoms Pond Area (SBPA) ISVE system is currently running normally.

SBPA Final Cover

MWH is currently waiting for the construction completion documentation summarizing the SBPA final cover to be submitted by Walsh and Kelly. The Construction Completion Report (CCR) for the SBPA cover will be completed when the information is received.

cc + 21

Walsh and Kelly was at the ACS site during the week of October 11th to demarcate the truck route and parking area with high visibility paint on the new asphalt SBPA cover. The curbs that were placed around the catch basins were inspected during recent thunderstorms and found to be functioning adequately in diverting run-off toward the catch basins. MWH is working with the contractor to improve the aesthetics of the curbs.

Chemical Oxidation Application

The second round of chemical oxidation (chem ox) post-application sampling was conducted between October 25th and 27th. Soil and groundwater samples were collected at eight locations across the application grid. MWH is currently waiting on the lab results to be returned.

MWH has provided the results of the soil gas samples taken near the resident at the intersection of Calfax and Reder Rd. and the proposed plan of action to the ACS PRP group for approval. Upon approval, the plan will be forwarded to U.S. EPA and IDEM for review, comment, and approval.

Groundwater and Residential Well Sampling

The invalidated laboratory results of the 24th round of groundwater sampling and residential well sampling have been returned to MWH. The results are currently being validated and are expected to be returned to MWH in approximately two weeks.

Lower Aquifer Investigation

Investigation of the lower aquifer is scheduled to begin on November 1st. The investigation will focus on an array near well 10WC. The investigation is expected to be completed within two weeks.

Look Ahead Schedule

October 29, 2004 through November 18, 2004	<ul style="list-style-type: none">• Complete Off-Site ISVE system upgrades• Begin test-out of the Off-Site ISVE system upgrades• GWTP/BWES/PGCS operation and routine maintenance (on-going)• Complete SBPA Cover finishing work• Lower Aquifer Investigation
Health and Safety Items to Monitor	<ul style="list-style-type: none">• Safety issues associated with the Off-Site ISVE system expansion. The system will be shut down while personnel work on the electrical portions of the blower building.• Safety issues associated with the Lower Aquifer Investigation.• Routine daily tailgate health and safety meetings for all work activities.

Next Construction Meeting – Thursday, November 18, 2004, 10 AM.

ALC/HPT/JV/RAA

J:\209\6601 ACS\0202 MWA PM\Meeting Minutes 2004\Meeting Minutes 10-28-04.doc

(74)

25 Sept 09

0900 Arrive on site. Overcast
Calm, Cool 58°F

Personnel on site

Rick McCarroll

most

Lee Cragg

"

Tim Kerkela

Austgen

Clara Smith

most

Amy Clare

"

Larry Campbell

BUSK

0920 Disc w/ Chad & Amy - completed
Geo MW sampling yesterday.
+ Started Res. well sampling
Completed 3 res wells yesterday

0920 Observed ~~to~~ Austgen working on
Thermox 1 heat exchanger blow

1020 Photo 67-16 ^{20 fm} Looking E at

Completed SBPA asphalt cover

1031 Photo 67-17 ^{21 fm} Looking W at

Marsh area ponds. Note weed

chips on path on N side of pond

1032 Photo 67-18 ^{22 fm} Looking NW showing

Exhaust from Thermox 2 -

back in operation

1037 Photo 67-19 ^{23 fm} Looking NW

by Larry Campbell

(75)

Showing installed new knock-out
tank between Thermox 1 new
heat exchanger (L) and existing
Chem oxidizer (R)

1039 Photo 67-20 ^{24 fm} Looking NW at Thermox 1
Air port / valve being repaired by
Austgen

1045 Disc w/ Lee Cragg. Changed out
carbon yesterday. Let equilibrate
overnight. Starting recirculation mode
today. After pH normalizes will restart
GWT.

- Lee checking out controllers for
Granules pumps in MW56 & 100

1055 Disc w/ Chad & Amy. Res. well
sampling was just completed

1103 Photo 67-21 ^{25 fm} Looking NW at
Completed Chemox injection location on
Yard at 1002 Radar Rd. Note dark

soil placed in areas disturbed by equipment

1104 Photo 67-22 ^{26 fm} Looking NE at Chemox

Injection points in bentonite at surface

1112 Photo 67-23 ^{27 fm} Looking NW at

Peroxide tanker after Chemox injection

1115 Left Site for Day

by Larry Campbell

(76)

7 OCT 04

0910 Arrive onsite - partly cloudy
70°F

Personnel onsite

Lee Owsz MWHRich McCarroll MWHDuane Austgen AustgenMike Larson "Tim Kirkland "Robert Coy "Larry Campbell BUSE0920 Disc. w/ Lee. Austgen
personnel are working on software
to bring Thermo 1 back online.0930 Left site for day because
of family medical emergency1000 CONSTRUCTION Coord. Mtg
Attendees:Lee Owsz & Rich McCarroll - site
Pete Vajt, Rob Adams, Chad
Smith, Amy Clare - MWH office
Kevin Allen, Marie Travers
& Larry Campbell - phoneAgenda - No issues since last Mtg.
Granular activated Carbon (GAC)

Jim Campbell

(77)

was changed out - GAC Personnel
had & wore all appropriate PPE.GWTP - Running at 27 gpm. GAC
was changed out on 9/27/04. GWTP
then operated in recirculation mode
on 9/28 to remove GAC fines. & returned
to operation on 9/29/04. All excess
sulfuric acid & temporary holding tanks
have been shipped off-site prev. week.Thermox 2 - New packing material was
ordered & installed on 10/4/04. Unit
restarted 10/5 & running well.Thermox 1 Mechanical & electrical connections
are complete and system began startup
procedures on 10/5/04. Temperature has
been gradually rising to operational level
of 1500°F. Expect to introduce clean
air to ~~the~~ ^{the} system on Friday. Will then
begin operations & with vapors soon.
MWH will document changes in the
quarterly report of active treatment systems
& will update the O&M Manual.O&M ISVE is working. Austgen is completing
the electrical & control wiring - expected
completion is 10/11/04 - of auxiliary blower.

Jim Campbell

(78)

MWt expects to startup the auxiliary blower unit next week.

ONCA ISVE system is running OK

SBPA Final Cover - Walsh + Kelly onsite

10/6 to fill in joints on SBPA final cover. W&K will return to install stormwater diversion curbs, place asphalt around catch basins & paint traffic lines on cover.

Questioned method to delineate heavy traffic areas to be visible in winter under snow conditions.

ChemOX application was completed Sat.

Sept 25. Installed 388 points, 8 more than scheduled. Subcontractors demobilized from site on 9/25/04.

Hydrogen peroxide tank was removed today 10/7/04. MWt will repair damage to soil in yard next week.

Soil Gas sample results received. Results indicated possible natural gas leak - confirmed by utility company.

ChemOX Follow up sampling will be conducted last week of OCT

Jim Campbell

(79)

GW Sampling was completed on Mon. ~~10/11~~ 9/27.

Residential Well Sampling - Conducted on

Mon + Tue 9/27 & 9/28/04. One residential well could not be sampled because the resident had taped faucet shut. MWt made many varied attempts to contact resident - but was not successful.

At request of another resident, MWt sampled well at that alternate location.

Lower Aquifer Investigation - is

scheduled to begin on NOV. 1 and may take 2 weeks

Public Meeting - EPA, MWt & PRPs

will hold a public mtg on Oct 20 from 3-5 pm.

Look Ahead Schedule

- Complete OFCA ISVE auxiliary blower system
- Start up " " " " " "
- Operate GWTP & ISVE systems
- Complete startup of ThermoX 1
- Complete SBPA Final Cover finishing work
- Conduct Public Mtg
- Conduct Lower Aquifer Investigation

Next Mtg Thur Oct 21, 2004 @ 10AM

Jim Campbell

(80)

14 Oct 04

0900 Arrive on site - overcast
Cool - 15°F - slight breeze

Personnel on site

Lee Cross MWH

Dwayne Hustgen Hustgen

Terry Brisk Ryan

Tim Kirkland Hustgen

Larry Campbell BLSR

Kevin Falvey Microbac

0925 Discussion w/ Lee regarding
upcoming public meeting. Called
Pete Vagt to discuss. Pete is
planning short PowerPoint presentation
of dust activities at Aky Bldg.
Followed by bus trip to site.

0945 Photo 68-01 Looking E at SBPA
final cover showing asphalt curb on
perimeter to direct stormwater
runoff to drains

0946 Photo 68-02 Looking NW showing
exhaust from both Thermox 1 & 2.

0949 Photo 68-03 Looking NE at
Ryan preparing to install bypass
in vapor piping to direct ONCA 15VE

Transcribed

(81)

Vapors to Thermox 1 So ONCA 15VE
vapors can be directed to Thermox 2.

1015 Photo 68-04 Looking W showing
new asphalt curb on S edge of

SBPA cover near central storm drain

1016 Photo 68-05 Looking W showing
new asphalt curb on S edge of

SBPA cover near western storm drain

Note opening in curb for off-cap
influent water from RR track area

1020 Photo 68-06 Looking NE

showing asphalt apron placed
outside SBPA cover near NEV
storm drain

1022 Photo 68-07 Looking NE at
new asphalt curb placed on N
side of SBPA cover near middle
storm drain

1028 Photo 68-08 Looking SE showing
asphalt sealing of cracks where
asphalt paving abutted concrete pads

1040 Photo 68-09 Looking into CFOT
15VE electrical shed showing auxiliary
blower controller (L) and new cover
spray pump + motor (R).

Tim Campbell

(82)

1045 Disc. w/ Lee

- Walsh & Kelly onsite 10/8 to install asphalt curbs at edges of SBPA
- Final asphalt cover. Work done in drizzle. Some locations the back of curb crumbled & lost shape. Weik also sealed crack/joint between asphalt and concrete pads

- Last week MWH started Thermo and got it up to temperature. Kept in hot idle over weekend. Started processing vapors thru unit on 10/13/04.

- Austgen is onsite completing electrical connections at ONCA auxiliary blower. Should be ready to run by next wk

- Ryan / Austgen onsite today to modify gas manifold so ONCA 15UG vapors can be treated in Thermo L.

1100 Left site for day

J M Campbell

20 Oct 04 (Public Mtg)

(83)

1430 Arrive onsite - Overcast

Cal/m Cool 52°F

Personnel onsite

Lee Orosz	MWH
Amy Clare	"
Matt Mesarch	"
Robt Cox	Austgen
Robt Adams	MWH
Prabhakar	IDEM
Kevin Adler	EPRI
Pete Vugt	MWH
Larry Campbell	BSPH
Michelle Quinn	Post Tribune
Reeth Schaller	
John Jan Holmes	
Brook Shreve	
David Miller	
Alex de Silva	IDEM
Rick Mueller	JCB

Norma, David, Joseph Drapac

1430 Photo 68-10 looking SW at

personnel at Public Meeting

1431 Photo 68-11 Same as Photo 68-11

1432 Photo 68-12 looking SE at

personnel at public mtg

J M Campbell

← Public

(84)

- 1630 Photo 68-13 Looking NE at Lee Creek describing pond in wetlands
- 1635 Pete Vogt Presented slide show + description of problems/history of site, the investigation + remedy and subsequent Rft construction
- 1640 Lee Creek described tour of treatment plant and ISUE System. Also visited wetland pond
- 1640 Took personnel on bus to visit OFCA ISUE System
- 1710 Took visitors by bus back to City Hall
- 1721 Left site for day

21 OCT 04

Construction Mtg. Conf. Call
rescheduled to 28 OCT 04

M Campbell

(85)

25 OCT 04

1200 Arrive On Site - Clear
Slight wind, Cool 70°F
Personnel On Site

TIM Kirkland	Austgen
Terry Frisk	Ryan
Matt Mesarich	MWH
Chad Smith	MWH
Larry Campbell	BUSPC

1250 Disc w/ Chad Smith - MWH
has completed sampling 2 Temp.
wells in Chemex Area. W/2/
Sample more this PM.

1300-1430 Received MWH ACS
reports

1430 Observed MWH Collect Gnd Sample
from Temp. well TWO3 on
Rader Rd.

1432 Photo 68-14 SAE Looking NE at
MWH Sampling TWO3

1500 MWH Crew completes sampling @
TWO3 and moves to PZ 105

1505 Photo 68-15 Looking SE at
MWH taking water level at PZ 105

1555 Photo 68-16 Looking S at
M Campbell

(86)

MWH Filling VOC vial sample
from PZ105

605 Return to trailer & review

MWH Aes Reports

1645 Leave site Sunday

Jim Campbell

(87)

27 OCT 04

1115 Arrive on site - Clear calm

cool 62°F

Personnel on site

Matt Mesarch MWH

Chad Smith MWH

Jana Butler PSA Encl.

Aaron Butler "

Tim Kirkland Austgen

Larry Campbell BVSRC

1120 Disc. w/ Chad Smith

MWH + PSA completed new ground-
water probe sampling in Chemox

treatment area yesterday. Today

are collecting soil samples in

Chemox treatment area. Completed

3 soil probe sampling today with

complete 2 more later today.

- Tim Kirkland is clearing location
in wetlands for lower aquifer investi-
to start next week.

1135 Photo 6817 Looking NE at

new vapor piping arrangement to
allow ^{on the} site vapors to be treated
in Thermox |

Jim Campbell

22

1156 Photo 68-18 Looking S at

Soil sample returned from PA2-02

0.20' depth in E side Gila Rd

1159 Photo 68-19 Looking N at

PA2-02 showing PSA remains

Soil tube C 24'

1201 Photo 68-20 Looking down at

Soil samples from 16-20' (near)

and 20-24' (far) rock block

Staining at 19'-22' in 2 tubes

1207 Photo 68-21 Looking at north

Gilching loc. (other samples)

from site 201 from PA2-02

1219 Photo 68-22 Looking S at PSA

Advancing sampler at PA2-DL3

1227 Photo 68-23 Looking S at PSA

Slitting sampling tube to expose

sample for examination

1245 Photo 68-24 Looking N at

PSA decaying sampling

probe

1251 Photo 68-25 Looking N at

DICA over growing grass & grass

in area where legs had been stepped

1304 Photo 68-26 Looking N at

Jim Campbell

23

fasten clearing brush & shrubs

in wetland in area of future fence

sign for investigation

1310 Photo 68-27 Looking NE at

staked locations of locust agave

beginning

1330 Left side for clearing

Jim Campbell

(90)

1000

28 Oct 04

Construction Mtg Notes

Via Telephone - no one at site

Personnel on Call

Korn Adley	USEPA
L.M. Campbell	BOSPC
Pete Vagt	MWH
Rob Adams	"
Chad Smith	"
Matt Meserich	"
Chris Daly	"
Jon Rohl	"
Amy Chere	"

IT&S - No issues since last mtg.GWTP - running at 27 gpm - no problems.ISUE both CICA SBPA & CFCA systems are operating well processing thru both Thermo 142 CFCA auxiliary blower waiting on special electrical parts.SBPA Final Cover - Walsh & KellyCompleted stripping of roadway
Soil Gas - because of natural gas leak, will probably need to

Jim Campbell

(91)

resample soil gas near residence at 1002 Cedar Rd. Proposal being reviewed by PRP group.

Chemix - PTA Encl & MWH coordinator post application soil & GW sampling in Chemix treatment area on Oct 25-27.GW Sampling Lab results are back but must be validatedLook Ahead

- Lower Aquifer investigation starts next week on Nov. 1
- Soil gas resample
- 64m GWTP & ISUE systems
- Complete CICA auxiliary blower

Next Mtg in 3 wks on Nov 18 10am
1000 Mtg over

Campbell



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 67 Photo #20
 Date: 09-28-04 Time: 1030
 Photographer: Larry Campbell
 Description: Photo facing east showing completed SBPA
 asphalt concrete final cover.

Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 67 Photo #21
 Date: 09-28-04 Time: 1031
 Photographer: Larry Campbell
 Description: Photo facing west showing marsh area
 pond. Note wood chips on path on north
 side of pond.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 67 Photo #22

Date: 09-28-04 Time: 1032

Photographer: Larry Campbell

Description: Photo facing northwest showing exhaust from thermox 2 after it was returned to operation following cleanout of packing material and acid washing.

Site: American Chemical Service, Inc.

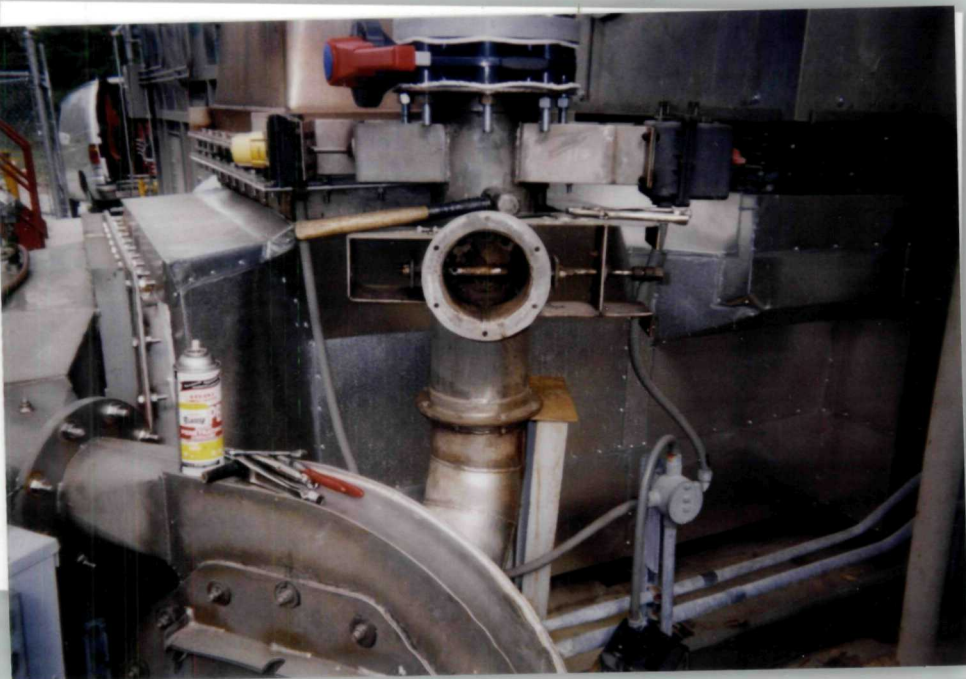
Proj. #: 46526

Roll: 67 Photo #23

Date: 09-28-04 Time: 1037

Photographer: Larry Campbell

Description: Photo facing northwest showing newly installed knockout tank between thermox 1 (L) and existing chemical oxidizer (R).



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 67 Photo #24
 Date: 09-28-04 Time: 1039
 Photographer: Larry Campbell
 Description: Photo facing northwest showing thermox 1
 air port/valve being repaired by Austgen.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 67 Photo #25
 Date: 09-28-04 Time: 1103
 Photographer: Larry Campbell
 Description: Photo facing northwest showing completed
 chemox injection locations in yard at 1002
 Reder Road. Note dark soil placed in areas
 disturbed by equipment.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 67 Photo #26

Date: 09-28-04 Time: 1104

Photographer: Larry Campbell

Description: Photo facing northeast showing chemox injection points with bentonite at the surface.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 67 Photo #27

Date: 09-28-04 Time: 1112

Photographer: Larry Campbell

Description: Photo facing northwest at ISOTEC peroxide tank after completion of first round of chemox injections.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #1

Date: 10-14-04 Time: 0945

Photographer: Larry Campbell

Description: Photo facing east showing asphalt curb on perimeter of SBPA final cover to direct stormwater runoff to drains.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #2

Date: 10-14-04 Time: 0946

Photographer: Larry Campbell

Description: Photo facing northwest showing exhaust from both thermox 1 and 2.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #3

Date: 10-14-04 Time: 0949

Photographer: Larry Campbell

Description: Photo facing northeast in GWTP showing Ryan preparing to install bypass in piping so SBPA ISVE vapors could be directed to thermox 1.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #4

Date: 10-14-04 Time: 1015

Photographer: Larry Campbell

Description: Photo facing west showing new asphalt curb on south edge of SBPA final cover near central storm drain.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #5

Date: 10-14-04 Time: 1016

Photographer: Larry Campbell

Description: Photo facing west showing new asphalt curb on south edge of SBPA cover near western storm drain. Note opening in curb so runoff from railroad track can access the drain.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #6

Date: 10-14-04 Time: 1020

Photographer: Larry Campbell

Description: Photo facing northeast showing asphalt apron placed outside SBPA cover near northwest storm drain.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #7

Date: 10-14-04 Time: 1022

Photographer: Larry Campbell

Description: Photo facing northeast showing new asphalt curb on north side of SBPA final cover near middle storm drain.

Site: American Chemical Service, Inc.

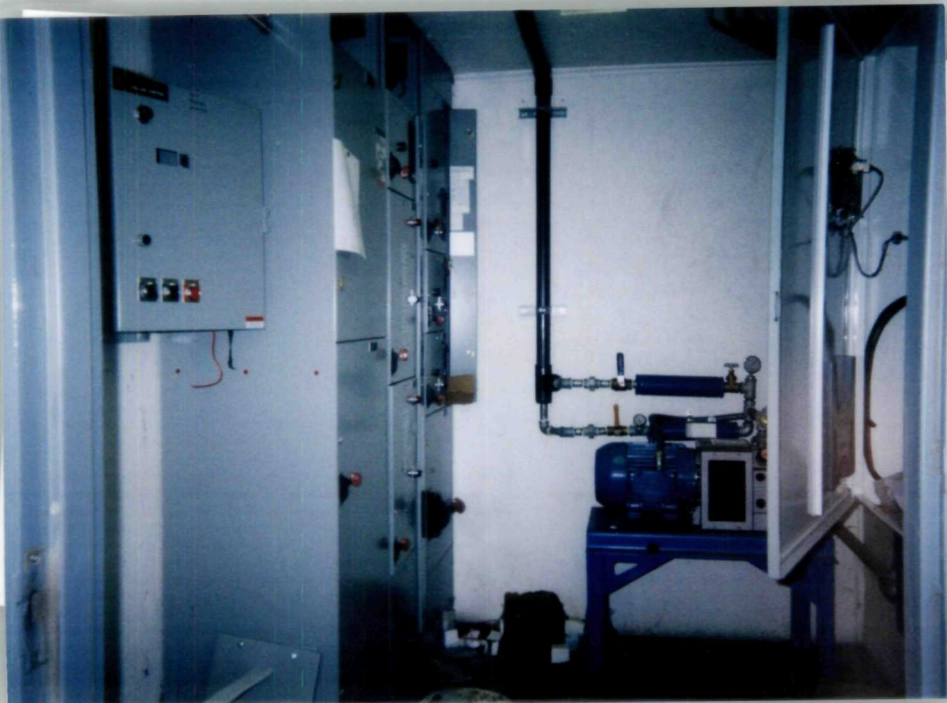
Proj. #: 46526

Roll: 68 Photo #8

Date: 10-14-04 Time: 1028

Photographer: Larry Campbell

Description: Photo facing east showing asphalt sealant in crack between asphalt cover and concrete well pads.



Site: American Chemical Service, Inc.

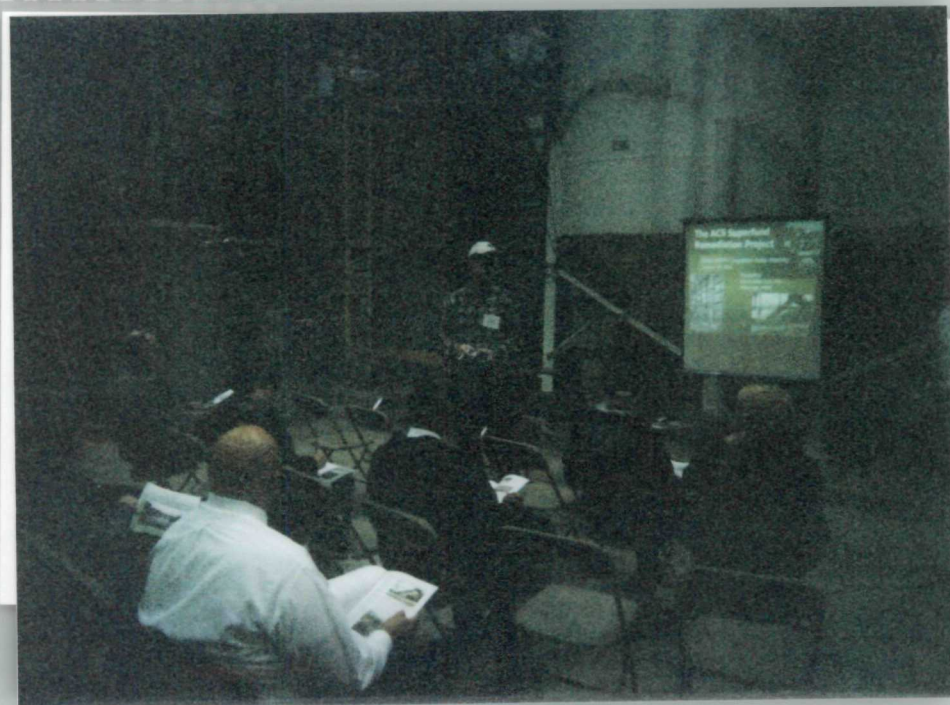
Proj. #: 46526

Roll: 68 Photo #9

Date: 10-14-04 Time: 1040

Photographer: Larry Campbell

Description: Photo facing south into OFCA ISVE blower shed electrical room showing new auxiliary blower controller (L) and new air sparge pump and motor (R).



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #10

Date: 10-20-04 Time: 1530

Photographer: Larry Campbell

Description: Photo facing southwest showing personnel attending the public meeting to celebrate completion of construction of remedial action elements.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #11

Date: 10-20-04 Time: 1531

Photographer: Larry Campbell

Description: Photo facing southwest showing personnel attending the public meeting to celebrate completion of construction of remedial action elements.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #12

Date: 10-20-04 Time: 1532

Photographer: Larry Campbell

Description: Photo facing southeast showing personnel attending the public meeting to celebrate completion of construction of remedial action elements.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #13

Date: 10-20-04 Time: 1630

Photographer: Larry Campbell

Description: Photo facing northeast showing Lee Orosz describing the wetlands pond at the public meeting.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #14

Date: 10-25-04 Time: 1432

Photographer: Larry Campbell

Description: Photo facing north showing Chad Smith sampling temporary well TW03 in off-site chemox treatment area.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #15

Date: 10-25-04 Time: 1505

Photographer: Larry Campbell

Description: Photo facing southeast showing Matt Mesarch taking water level reading at PZ 105 in off-site chemox treatment area.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #16

Date: 10-25-04 Time: 1555

Photographer: Larry Campbell

Description: Photo facing south showing MWH personnel collecting VOC sample at PZ105 in off-site thermox treatment area..



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #17

Date: 10-27-04 Time: 1135

Photographer: Larry Campbell

Description: Photo facing northeast showing new vapor piping arrangement to allow ONCA SBPA ISVE vapors to be treated in thermox 1.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #18

Date: 10-27-04 Time: 1156

Photographer: Larry Campbell

Description: Photo facing south showing soil sample recovered from PA2-02 @ 20' depth on east side of Colfax Road in chemox treatment area.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #19
 Date: 10-27-04 Time: 1159
 Photographer: Larry Campbell
 Description: Photo facing north showing PSA crew removing soil sampling tube from 24' depth at PA2-02 in off-site chemox treatment area.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #20
 Date: 10-27-04 Time: 1201
 Photographer: Larry Campbell
 Description: Photo facing down at soil samples from 16-20' (near) and 20-24' (far). Note black staining at 19-22' in the two tubes.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #21
 Date: 10-27-04 Time: 1207
 Photographer: Larry Campbell
 Description: Photo facing down showing MWH
 collecting VOC and other samples from
 stained soil from PA2-02 in off-site chemox
 treatment area.

Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #22
 Date: 10-27-04 Time: 1219
 Photographer: Larry Campbell
 Description: Photo facing south showing PSA advancing
 sampler at PA2-DL03 in off-site chemox
 treatment area.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #23

Date: 10-27-04 Time: 1227

Photographer: Larry Campbell

Description: Photo facing south showing PSA slitting sampling tube to expose soil sample from PA2-DL03 for examination.

Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 68 Photo #24

Date: 10-27-04 Time: 1245

Photographer: Larry Campbell

Description: Photo facing north showing PSA deconning sampling probe in off-site chemox treatment area.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #25
 Date: 10-27-04 Time: 1251
 Photographer: Larry Campbell
 Description: Photo facing north showing growth of grass
 in area of OFCA cover where logs had
 been stored.



Site: American Chemical Service, Inc.
 Proj. #: 46526
 Roll: 68 Photo #26
 Date: 10-27-04 Time: 1304
 Photographer: Larry Campbell
 Description: Photo facing north showing Austgen clearing
 brush and shrubs in wetland in area of lower
 aquifer investigation borings.



Site: American Chemical Service, Inc.

Proj. #: 46526

Roll: 66 Photo #27

Date: 10-27-04 Time: 1310

Photographer: Larry Campbell

Description: Photo facing northeast at staked locations of
lower aquifer borings in wetlands.